## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



## - 1 1847 BANDAN NI SANIO KAN BAND BAND BAND NI KAN BAND BAND KAN BAND KAN BANDA KAN BANDA BANDA BANDA BANDA BA

(43) International Publication Date 14 July 2005 (14.07.2005)

**PCT** 

(10) International Publication Number WO 2005/064192 A1

(51) International Patent Classification<sup>7</sup>: 55/00

F16D 55/228,

(21) International Application Number:

PCT/IT2003/000869

(22) International Filing Date:

30 December 2003 (30.12.2003)

(25) Filing Language:

English

(26) Publication Language:

English

- (71) Applicant (for all designated States except US): FRENI BREMBO S.P.A. [IT/IT]; Via Brembo, 25, 1-24035 Curno (IT).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SCHORN, Michael [DE/IT]; Viale Grigna, 16, I-20050 Camparada (IT). TIRONI, Giovanni, Mario [IT/IT]; Via C. Fonzago, 16, I-24044 Dalmine (IT). ONGARETTI, Enrico, Battista [IT/IT]; Via Adua, 6, I-24040 Stezzano (IT). SALA, Paolo [IT/IT]; Via Case Nuove, 10, I-24030 Villa D'Adda (IT).

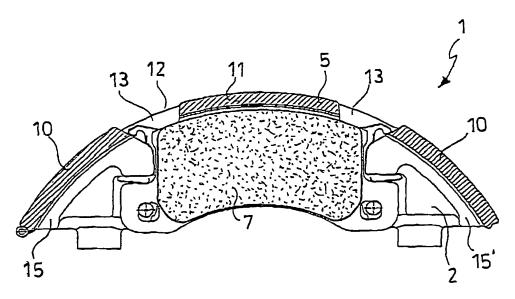
- (74) Agents: MAGGIONI, Claudio et al.; Jacobacci & Partners S.p.A., Via Senato, 8, I-20121 Milano (IT).
- (81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, EG, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT (utility model), PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

with international search report

[Continued on next page]

(54) Title: CALIPER FOR A DISC-BRAKE



(57) Abstract: A caliper (1) for a disc-brake comprises two side walls (2) at a distance from each other which delimit a space (3) to accommodate a portion of a brake disc in which one of said two side walls (2) comprises means (4) for attaching the caliper (1) to a vehicle so that it is integral in rotation and in translation. The side walls (2) are connected to each other by means of a connecting structure (5) which straddles the disc space (3). The connecting structure (5) comprises one or more shells (10, 11), arc-shaped or arranged along an arc, connected so as to be integral with both the side walls (2) along one of their outer circumferential edges (12) and the slenderness of these one more shells (10, 11) expressed as the ratio of thickness to circumferential extension relative to an axis of rotation of the brake disc is less than 17/100.

## THIS PAGE BLANK (USPTO)